COMMONWEALTH OF VIRGINIA | TRANSPORTATION PERFORMANCE REPORT - 2008

Measures

Statewide Highway Crashes and Fatalities

Transit Crashes

Aviation Crashes

Maritime Security Act

Airport Voluntary Security Certification Program

Safety & Security Plan

Major Metro Area Highway Crashes

Hampton Roads

Richmond

Northern VA

Other analysis

Motorcycles

Bicycles

Pedestrians

Rail Crossings

Performance Summary

Print Section

Goal: Safety and Security
Provide a safe and secure transportation system

Grade = A

There is no more fundamental responsibility of transportation agencies than to provide for the safety and security of the traveling public. Our goal is to ensure that the transportation system provides the safest roads, buses, trains and airports, and that travelers and commuters are safe and secure while using the system.

Performance Measures

- Number of Highway Fatalities and Fatality Rate per 100 Million Vehicle Miles Traveled
- Number of Highway Crashes and Crash Rate per 100 Million Vehicle Miles Traveled
- Number of Transit Crashes
- Number of Aviation Crashes
- Percentage of Compliance with Maritime Security Act
- Percentage of Participation in Airport Voluntary Certification Program

Did You Know?

In 2008, 80.6% of Virginians wore seatbelts, up from 79.9% in 2007.
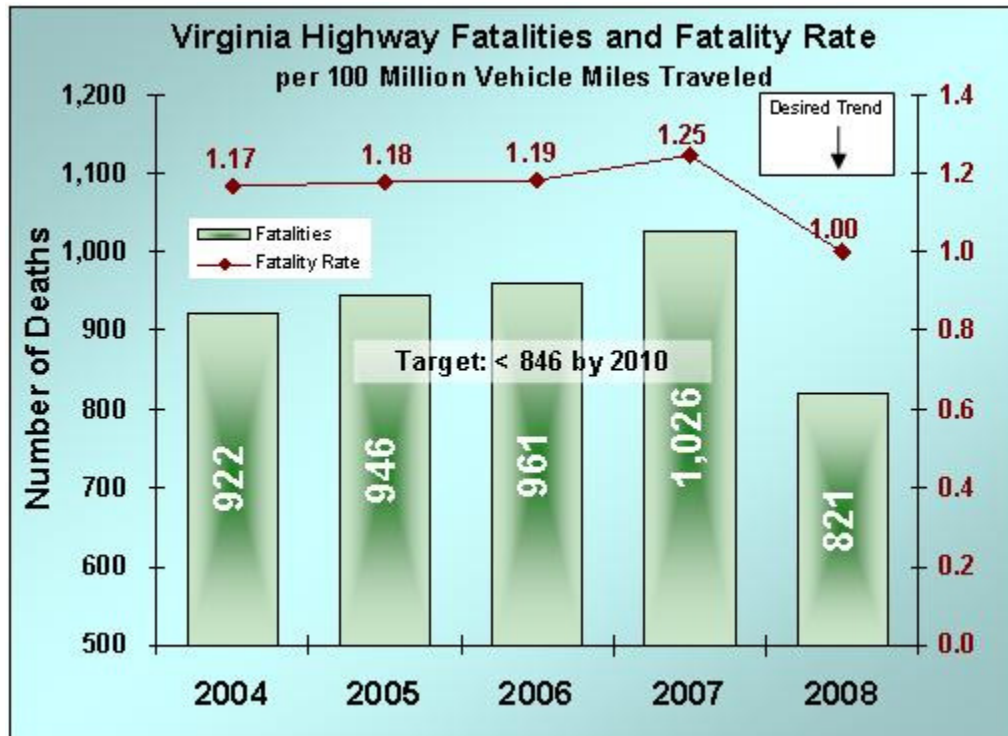
Performance Highlights

- Statewide highway fatalities totaled 821, a decrease of 205 from 2007, and decreases in fatalities were seen in all three major metro areas
- The highway fatality rate decreased to approximately 1 per 100 million vehicle miles traveled (VMT), down from 1.25 in 2007, and the rate also dropped in all three metro areas.
- The statewide number and rate of highway crashes decreased, as did the crash count and rate for each of the three metro areas
- 2008's 226 public transit crashes resulted in no fatalities. The fatality rate represents a great improvement over the last several years
- 27 aviation accidents resulted in 8 fatalities, down from levels experienced in 2007
- Statewide motorcycle crashes increased from 2,601 to 2,638, but fatalities dropped from 126 to 79
- Vehicle crashes with bikes dropped to 770, but related fatalities increased from 7 to 14
- There were 25 rail crossing crashes, a decrease of 2 from 2007, and no related fatalities

- Continue proven highway initiatives such as Click-it or Ticket, Checkpoint Strikeforce and Smooth Operator
- Continue to work collaboratively across transportation agencies
- Continue education and safety training for transit operators and pilots
- Scan all containers exiting Port terminals for radiation
- Implement emerging state-of-the-market technologies to further deter, detect and respond to security intrusions, including smart fencing, intelligent video and mesh communications capabilities

Statewide Highway Fatalities

The 2006 Strategic Highway Safety Plan established a goal of limiting highway crash-related fatalities to 100 less than 2005 levels by 2010. With a total of 821, Virginia surpassed this goal in 2008 but needs to continue focusing on this area in order to sustain continued reduction in future years. 821 fatalities represent a decrease of 205 from 2007.
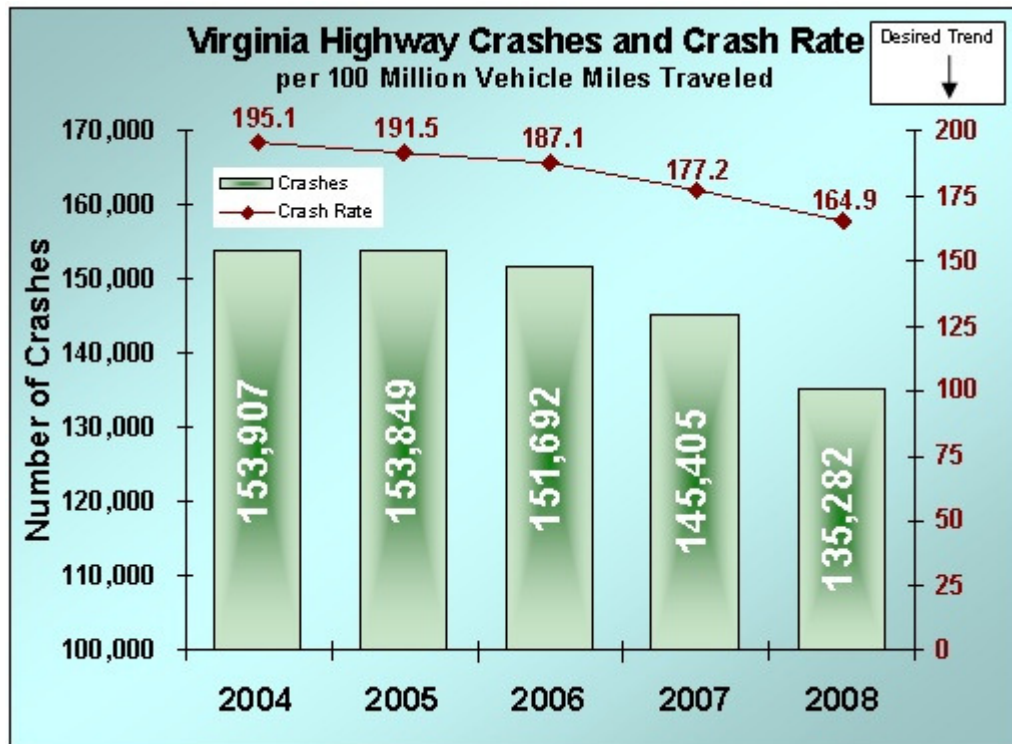

Source: Virginia Department of Motor Vehicles and Department of Transportation

Virginia's highway fatality rate decreased to 1 per 100 million VMT and remained below the national rate, which was 1.27.
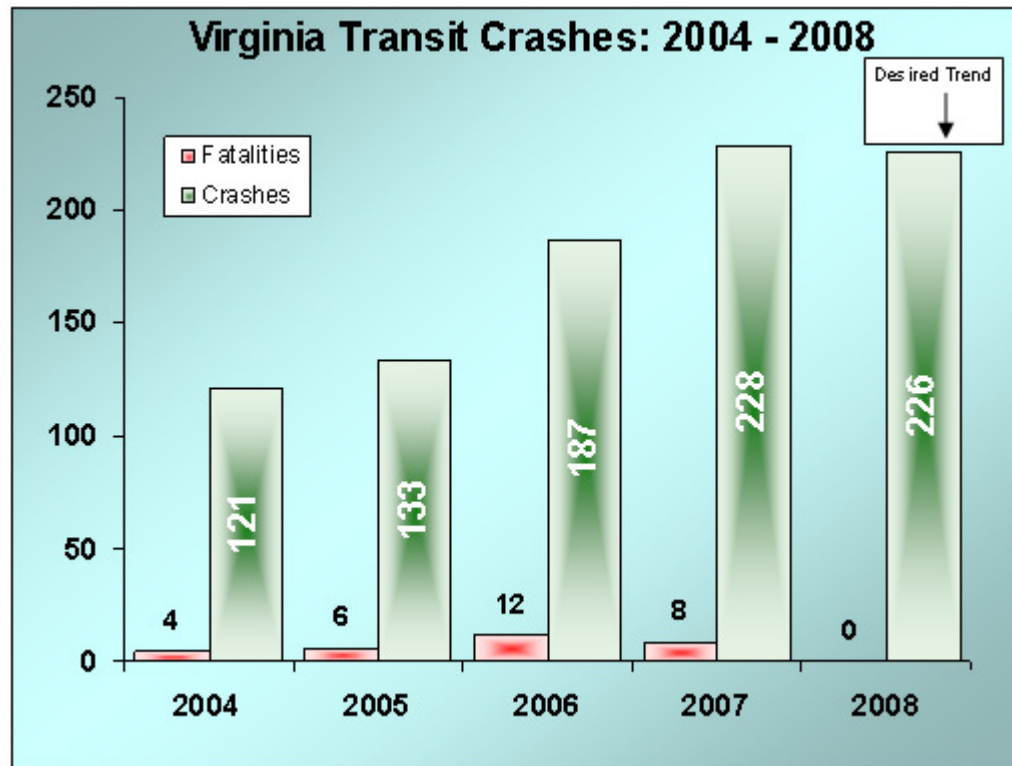
Statewide Highway Crashes

Statewide highway crashes and the corresponding crash rate have trended downward over the last several years. For 2008, the number of crashes decreased to 135,282 from 145,405 in 2007 and the crash rate per 100 million VMT decreased to 164.9 from 177.2.

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Virginia Highway Crashes and Crash Rate
per 100 Million Vehicle Miles Traveled

Desired Trend

Number of Crashes

195.1 191.5 187.1 177.2 164.9

153,907 153,849 151,692 145,405 135,282

2004 2005 2006 2007 2008

Crashes
Crash Rate

Source: Virginia Department of Motor Vehicles and Department of Transportation
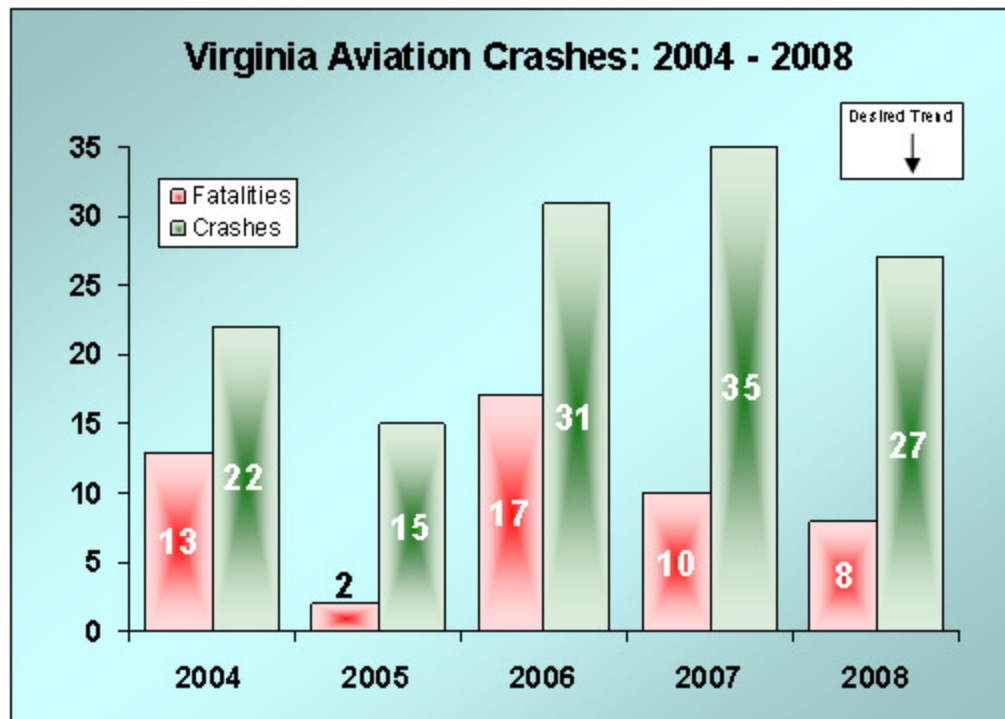
Transit Crashes
Transit crashes have trended upward over the past several years. In 2008, 226 transit crashes occurred, but no fatalities resulted. This marks a very significant improvement over the last several years.

Virginia Transit Crashes: 2004 - 2008

Desired Trend

Fatalities
Crashes

121 133 187 228 226

4 6 12 8 0

2004 2005 2006 2007 2008

Source: Virginia Department of Rail and Public Transportation

Aviation Crashes
Aviation accidents have generally trended upward over the past several years, though they decreased down to 27 in 2008 from 35 in 2007.

Virginia Aviation Crashes: 2004 - 2008

Desired Trend ↓

- Fatalities
- Crashes

	2004	2005	2006	2007	2008
Fatalities	13	2	17	10	8
Crashes	22	15	31	35	27

Source: Virginia Department of Aviation, National Transportation Safety Board (Aviation database)

Maritime Transportation Security Act Compliance

In response to growing concern for the security of our ports, the Maritime Transportation Security Act was signed into federal law in 2002. The Virginia Port Authority (VPA) has been in 100% compliance with the Act's provisions since its inception. The VPA scans all containers exiting the terminals for radiation and exceeds standards for random inspections. The VPA has introduced new electronic gates which record entry to and exit from the terminals and ensure that only port personnel and truck drivers with valid port-issued identification enter the terminals. The federally mandated Transportation Worker Identification Credential (TWIC) has been implemented and is required to access the marine terminals.

Airports Voluntary Security Certification Program

In 2003, the Virginia Department of Aviation (DOAV) established the General Aviation Voluntary Security Certification Program that identified minimum security measures for all of its 57 general aviation airports and encouraged each airport to conduct a screening audit and develop a security plan. As of 2008, 100% of the state's general aviation airports had participated in the Voluntary Security Certification Program, up from 98% in 2007.

> The Virginia Department of Aviation (DOAV) was the first state operated department to receive IS-BAO (International Standard for Business Air Craft Operations) certification for safety and business practices.

Safety and Security Plans

The Commonwealth of Virginia Emergency Operations Plan (COVEOP) is a comprehensive framework for the management of statewide incidents that provides the structure and mechanisms for the coordination of state support to impacted local governments and affected individuals and businesses. Each transportation agency has developed and annually updates its Continuity of Operations Plan (COOP) in accordance with Executive Order 44.
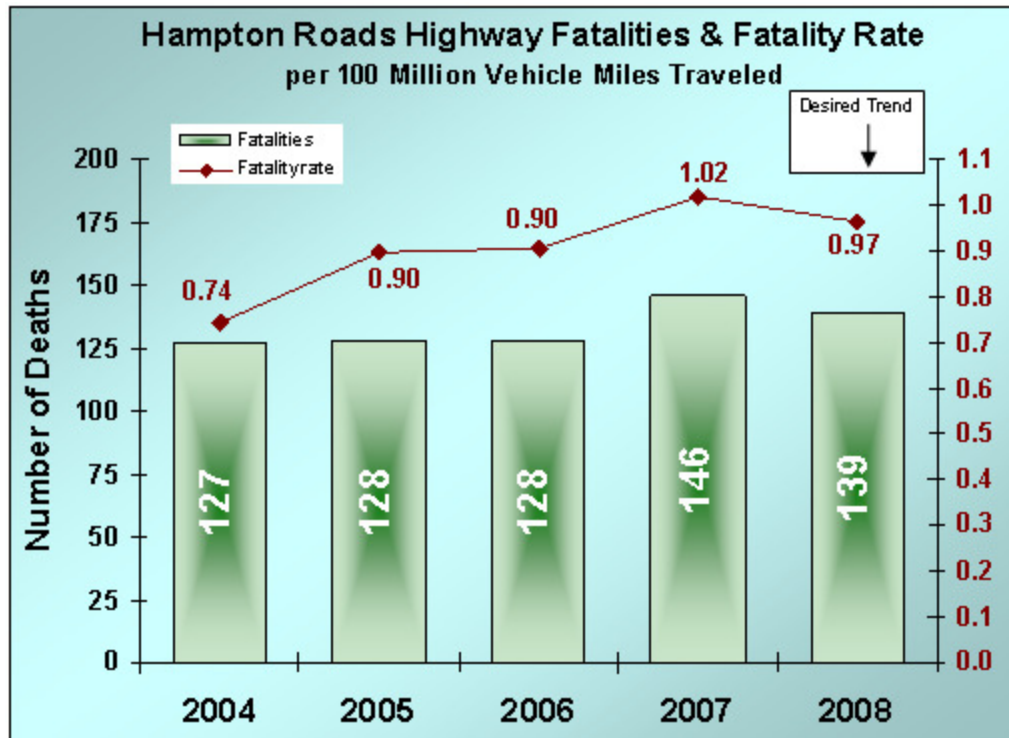
In a related matter, the federal government has been working for several years to establish minimum security standards for state-issued driver's licenses and identification cards through the Real ID Act of 2005 and more recently the PASS ID Act. The Department of Motor Vehicles (DMV) is proceeding aggressively with its plan to meet the goals of overall security standards for state-issued driver's licenses and IDs.

Atlantic hurricane season creates uncertain weather conditions throughout the Commonwealth. The Virginia Department of Emergency Management (VDEM), VDOT, Virginia State Police and the Virginia National Guard have partnered to conduct annual emergency preparedness exercises designed to test the Commonwealth's ability to reverse the east-bound lanes of Interstate 64 for evacuations. The lane reversal exercise diverts westbound traffic to both sides of Interstate 64, testing the ability of the Commonwealth to secure 36 on-ramps while ensuring traffic continues to move safely. The exercise also allows VDOT to analyze data collected to improve the evacuation process based on real world experience.
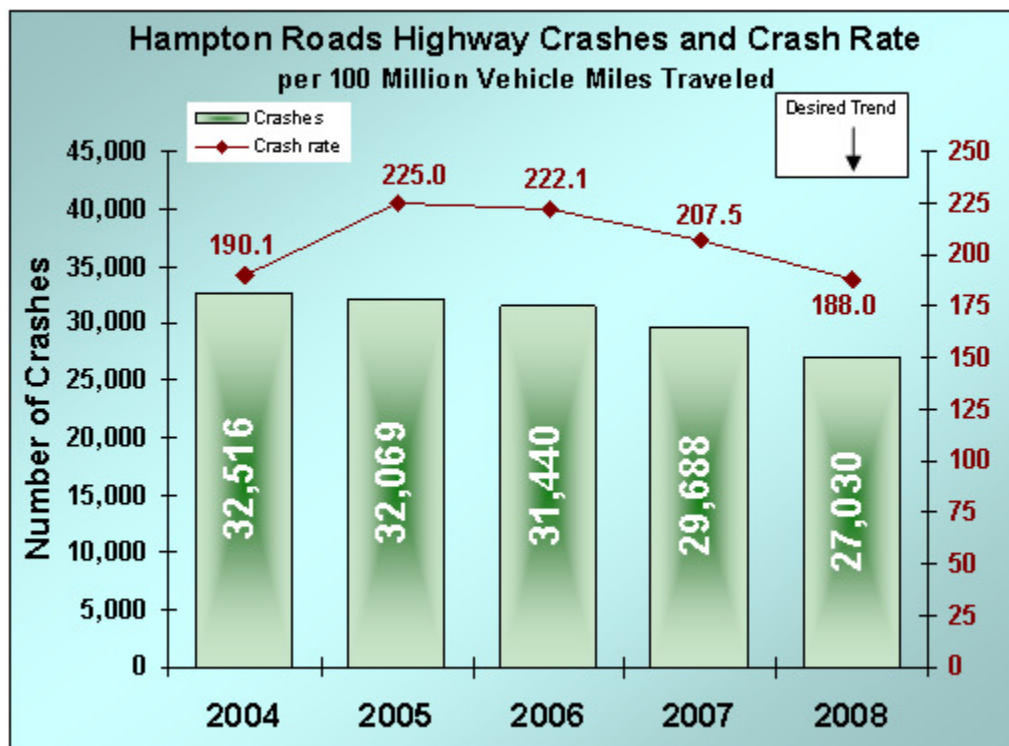
Major Metropolitan Area Highway Crash Information

Both the number of fatalities and the fatality rate have trended downward from 2007 in the three largest metropolitan areas.
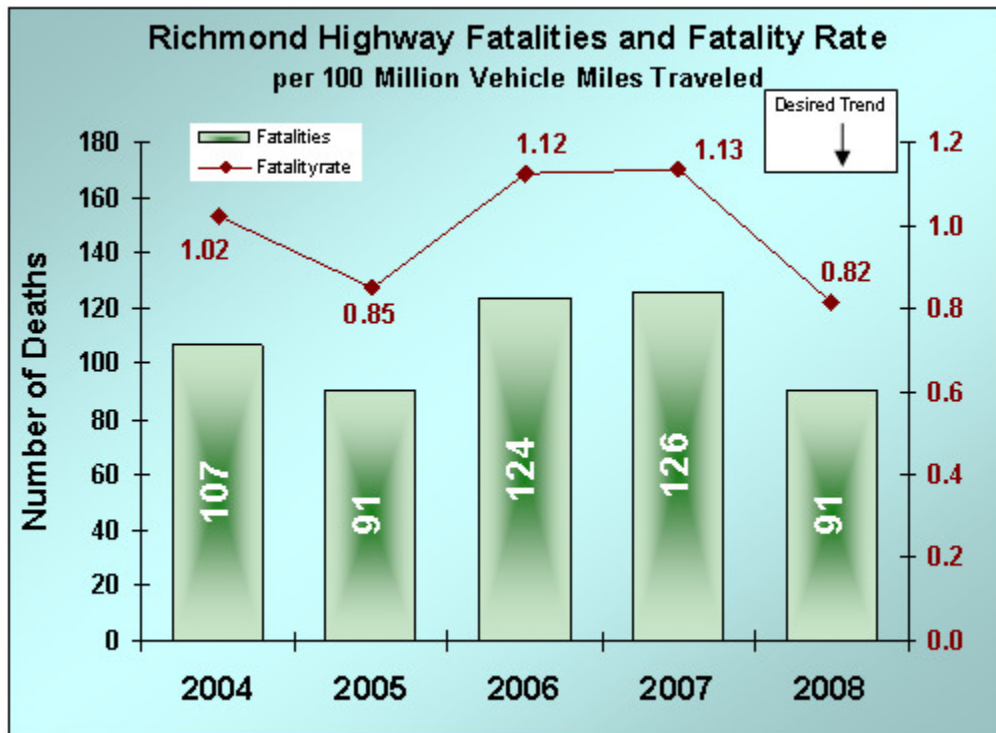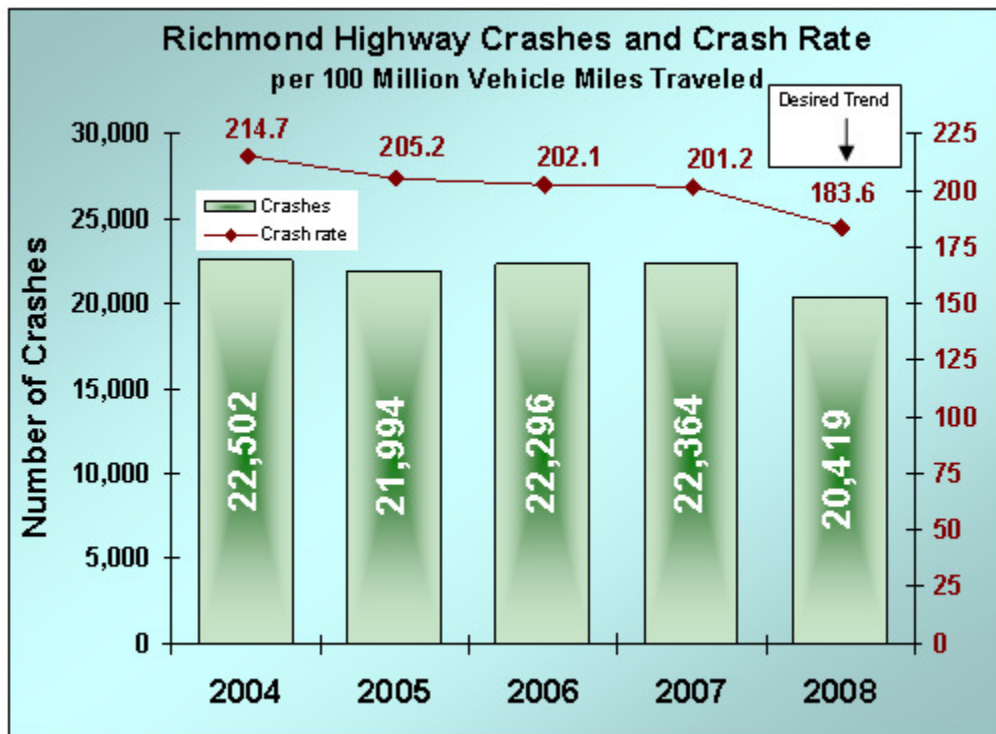
Hampton Roads Metro Area

Hampton Roads Highway Fatalities & Fatality Rate
per 100 Million Vehicle Miles Traveled

Desired Trend

Year	2004	2005	2006	2007	2008
Fatalities	127	128	128	146	139
Fatality rate	0.74	0.90	0.90	1.02	0.97

Y-axis left: Number of Deaths (0–200)
Y-axis right: Fatality rate (0.0–1.1)

Source: Virginia Department of Motor Vehicles and Department of Transportation (data aligned by planning district commissions)

Hampton Roads Highway Crashes and Crash Rate
per 100 Million Vehicle Miles Traveled

Desired Trend

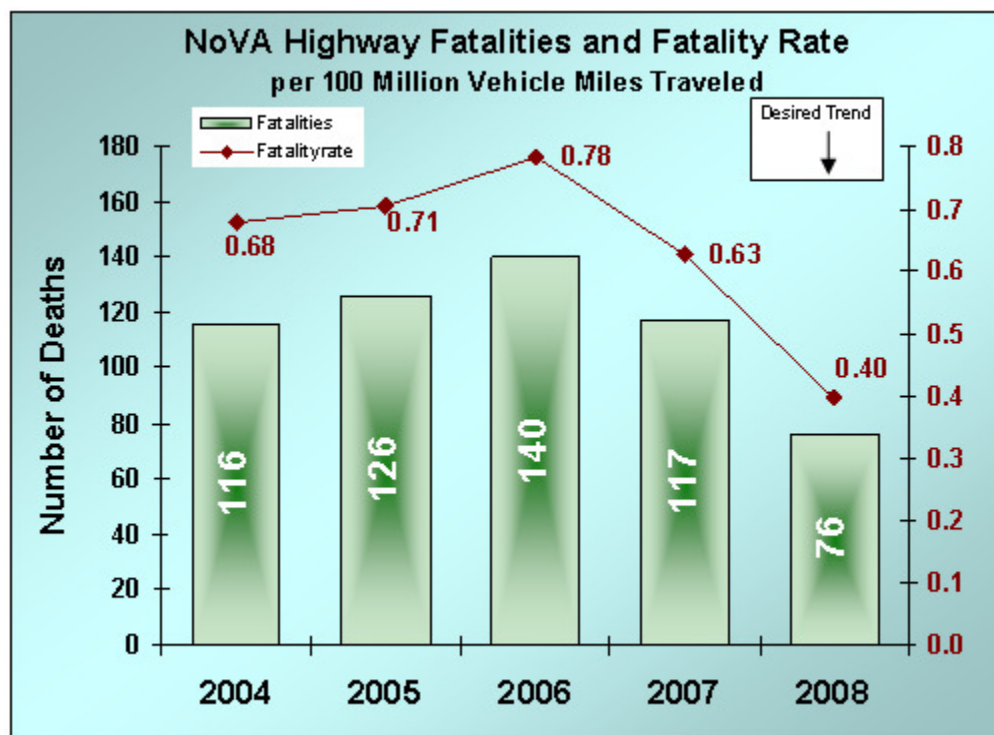| Year	2004	2005	2006	2007	2008
Crashes	32,516	32,069	31,440	29,688	27,030
Crash rate	190.1	225.0	222.1	207.5	188.0

Y-axis left: Number of Crashes (0–45,000)
Y-axis right: Crash rate (0–250)

Source: Virginia Department of Motor Vehicles and Department of Transportation (data aligned by planning district commissions)

Richmond Metro Area

Richmond Highway Fatalities and Fatality Rate
per 100 Million Vehicle Miles Traveled
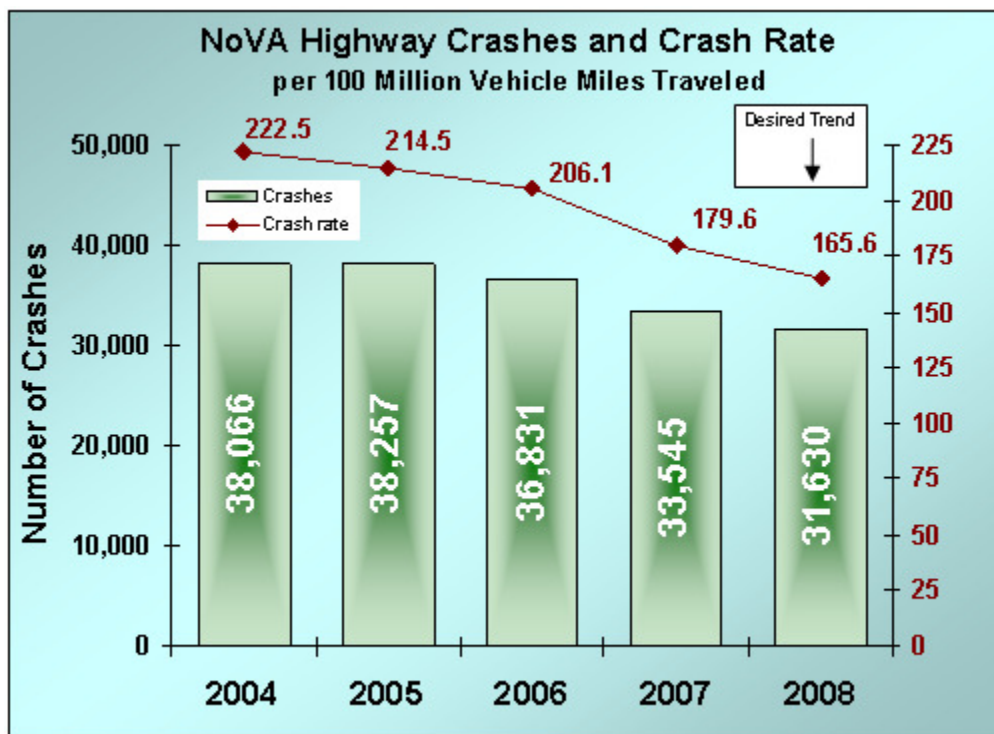
Source: Virginia Department of Motor Vehicles and Department of Transportation (data aligned by planning district commissions)

Richmond Highway Crashes and Crash Rate
per 100 Million Vehicle Miles Traveled

Source: Virginia Department of Motor Vehicles and Department of Transportation (data aligned by planning district commissions)

NoVA Highway Fatalities and Fatality Rate
per 100 Million Vehicle Miles Traveled

Source: Virginia Department of Motor Vehicles and Department of Transportation (data aligned by planning district commissions)

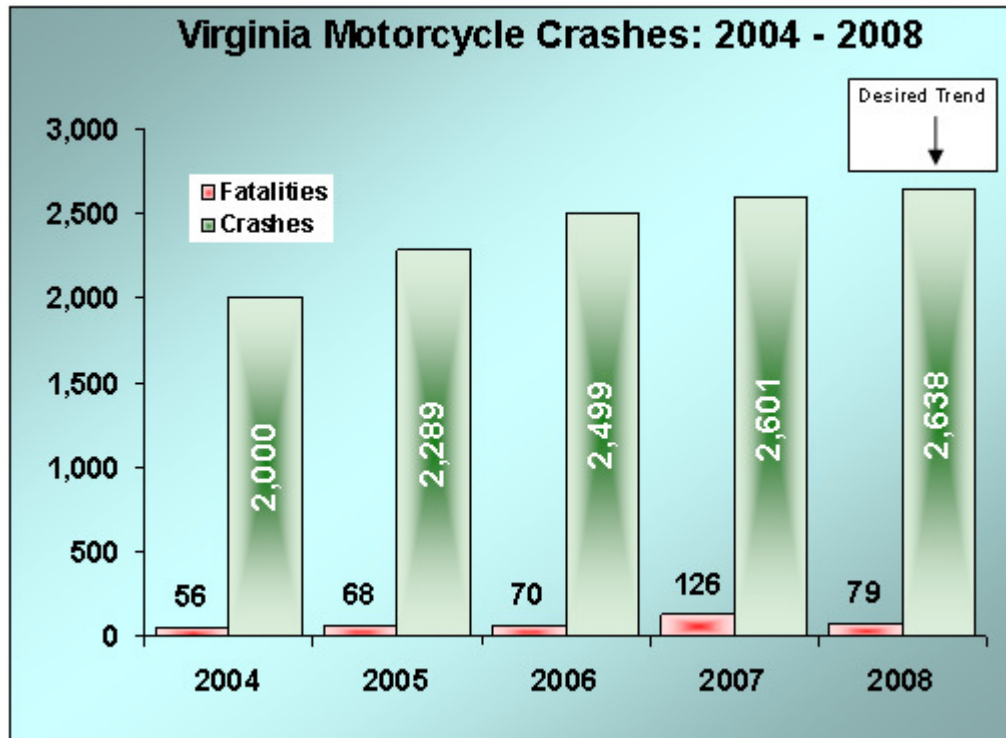**NoVA Highway Crashes and Crash Rate**
per 100 Million Vehicle Miles Traveled

Source: Virginia Department of Motor Vehicles and Department of Transportation (data aligned by planning district commissions)

Other Highway Crash Information
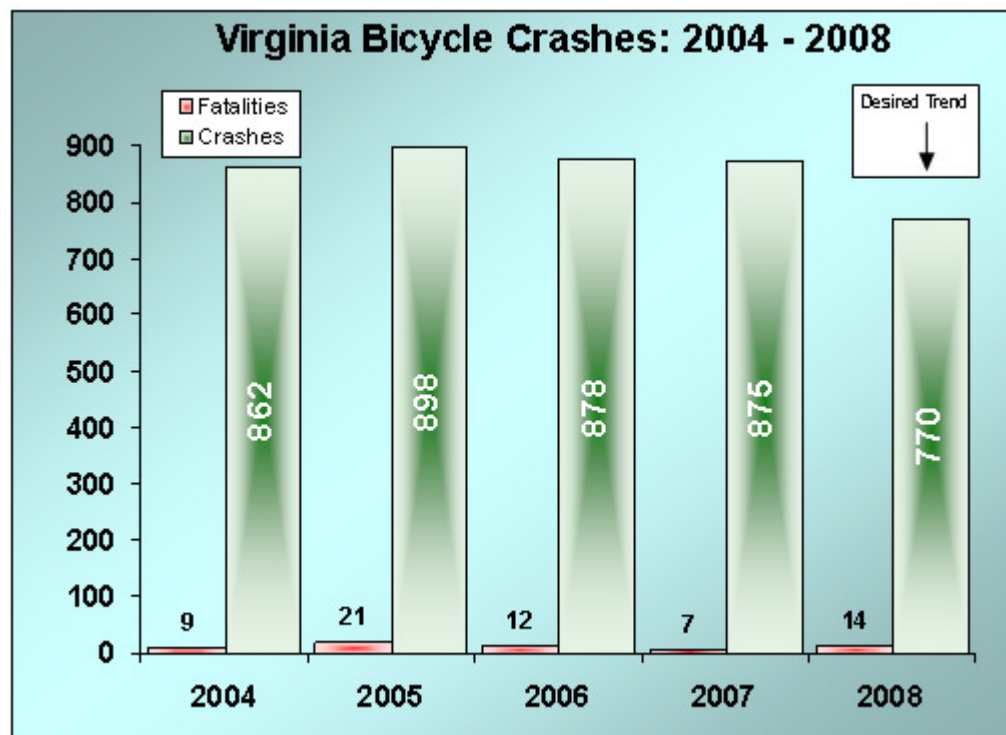
Crashes involving Motorcycles

Motorcycle crashes increased from 2,601 in 2007 to 2,638 in 2008, continuing the trend of the past few years.

Virginia Motorcycle Crashes: 2004 - 2008

Year	Fatalities	Crashes
2004	56	2,000
2005	68	2,289
2006	70	2,499
2007	126	2,601
2008	79	2,638

Desired Trend ↓

Source: Virginia Department of Motor Vehicles

Vehicle Crashes involving Bicycles
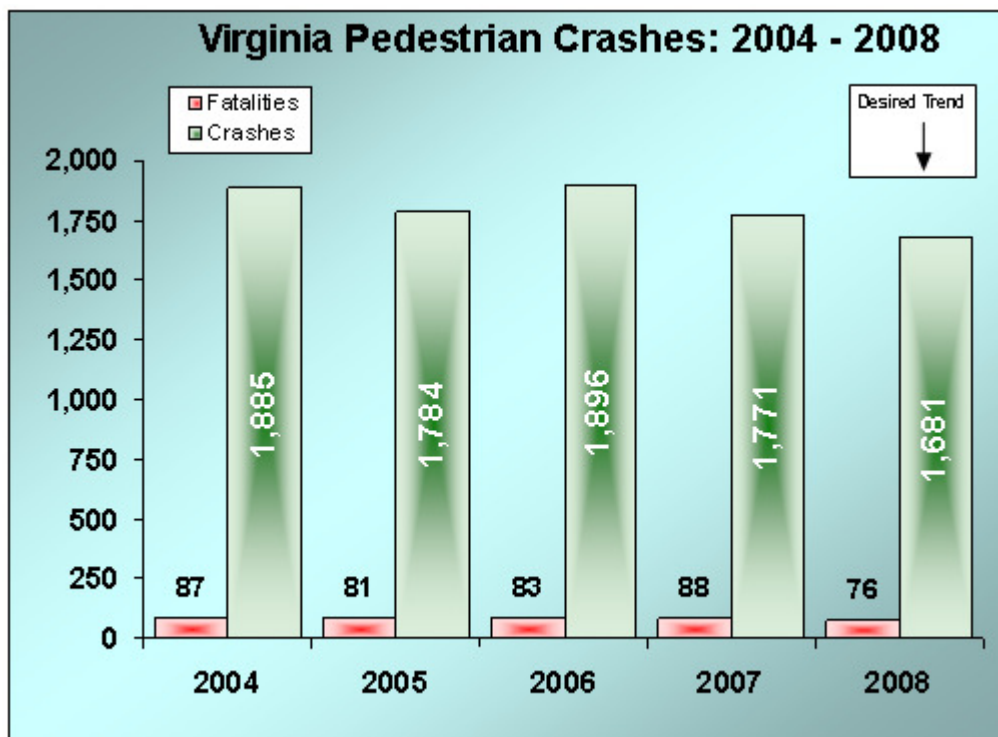
Bicycle crashes decreased significantly in 2008, from 875 to 770, continuing the trend of the past few years.

Virginia Bicycle Crashes: 2004 - 2008

Year	Fatalities	Crashes
2004	9	862
2005	21	898
2006	12	878
2007	7	875
2008	14	770

Desired Trend ↓

Source: Virginia Department of Motor Vehicles
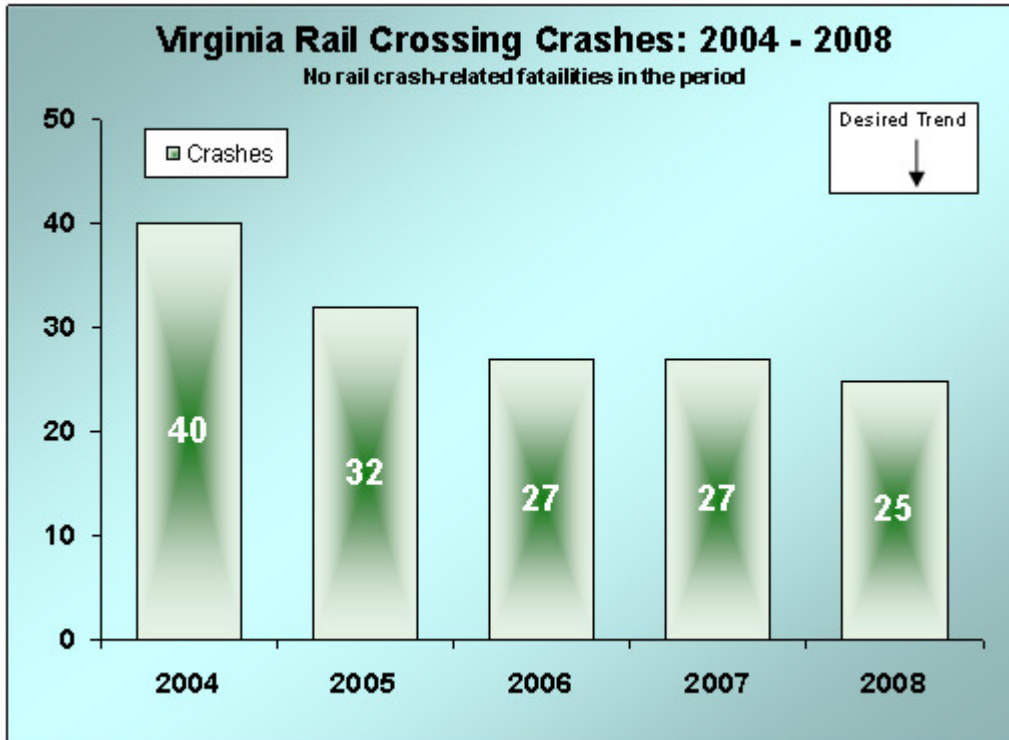
Vehicle Crashes Involving Pedestrians
Crashes involving pedestrians have trended downward over the past several years. In 2008, 1,681 crashes involving pedestrians represented a decrease of 90 from 2007.

Source: Virginia Department of Motor Vehicles

Vehicle Crashes at Rail Crossings
Crashes at rail crossings have declined since 2004.

Source: Virginia Department of Rail and Public Transportation

Grade = A

Performance Measure		Desired Trend	Performance Trend
Highway Fatalities	**Number**	↓	↓
	Rate per 100M VMT	↓	↓
Highway Crashes	**Number**	↓	↓
	Rate per 100M VMT	↓	↓
Transit Vehicle Crashes		↓	→
Aviation Crashes		↓	↓
Compliance with Maritime Transportation Security Act		→	→
Airports Participating in Voluntary Security Certification Program		↑	↑
Updated Safety and Security Plans		→	→